1   WHAT IS CLAIMED IS:

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3   1. (First Amended) A method for fabrication of

4   an enclosure device for a preselected set of speaker

5   drivers, said enclosure having any preselected external

6   shape and including internal cavities and channels formed

7   to enhance the ability of said drivers to reproduce sound

8   with preselected characteristics, the method comprising the

9   steps of:

10   selecting said external shape and forming an

11 outline of an external circumferential edge to create a

12 base template;

13   placing an the outline of the internal

14 circumferential edges of said drivers within said external

15 circumferential edge outline of said base template;

16   placing a plurality of guide holes within said

17 internal circumferential edge;

18   calculating a volume for driver chambers and

19 supporting ports;

20   selecting a number of said base templates

21 required to produce a desired volume of chambers and ports;

22   outlining said internal circumferential edges of

23 said drivers and said guide holes on each of said base

24 templates whereby said base template external on one end

25 has openings into which said preselected drivers may be

26 mounted, said base template external on the opposing side

27 terminates the driver chambers and said base templates

28 spaced (space) apart said external opposing base templates

29 thereby creating the desired chamber volume and ports;

30   outlining the circumferential edges of internal

31 supports to strengthen and stabilize said enclosure, the

32 placement of said internal supports being selected whereby

33 said drivers may be fully inserted within said enclosure

34 without being limited by said supports;

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1   applying each template outline of external

2   circumferential edges and internal circumferential edges to

3   preselected sheet stock;

4   cutting each layer of sheet stock along said

5   circumferential edges;

6   calculating the desired characteristics of a (the)

7   supporting crossover network for said drivers;

8   fabricating said crossover network with said

9   characteristics and terminating said network with

10 connectors for each driver and for externally applied user

11 supplied input;

12   mounting said crossover network to a selected

13 layer whereby said driver connectors are internally

14 accessible to attach to said drivers upon the condition of

15 said drivers mounted within said enclosure and said

16 externally applied user supplied input is externally

17 accessible;

18   inserting a reinforcing rod having threaded ends

19 within each guide hole of an external layer;

20   applying adhesive to at least one side of each

21 adjacent layer between said external layer and inside of

22 opposing external layer;

23   assembling layers in preselected order by inserting

24 said reinforcing rods through each successive layer

25 terminating with said opposing external layer;

26   applying a nut to each said threaded ends of said

27 reinforcing rods and tightening each of said nuts thereby

28 compressing said layers without deforming said layers or

29 distorting the sound reproduction characteristics of said

30 enclosure;

31   mounting said selected drivers within said enclosure,

32 attaching the terminals of each driver to the corresponding

33 internal connections of said crossover network;

1   applying a preselected veneer to the external

2 surface of said assembled enclosure; and,

3   applying a speaker cloth layer over said speaker

4 drivers.

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9   2.   The method of claim 1 further comprising the

10 steps of:

11   testing said assembled templates for sound

12 reproduction characteristics; and,

13   adjusting selected circumferential edges to

14 create desired response of enclosure and drivers.

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